

Please amend the above-identified application in the following manner.

IN THE CLAIMS

Please amend claims 9 and 10 to read as follows:

sub
D1
C
9. (Amended) Device for discriminating nuclear fuels in an installation, comprising a structure subjacent to storage cells immersed in a water filled bay, comprising a first detector, (15), of a first type of radiation, a second detector, (16), of a second type of radiation, a waterproof casing, (2), containing the detectors, and means of attaching the casing, (13, 14), to a boom, (3), that descends towards the fuel and means of placing, (6, 9), the casing in a given position on at least one of the cells, (5), adjoining a cell containing the nuclear fuel, (26), that is the subject of the discrimination.

C
sub
D1
10. (Amended) Device for discriminating nuclear fuels according to claim 9, whereby one of the detectors is a gamma radiation detector located behind two collimators in continuation (25, 31; 32, 34), comprising a rear collimator, located just in front of the said detector and opening up onto the whole detection area of a detection body, and a front collimator, with a slot section extended in a transversal direction of a fuel element.

Please add new claims 13-16 as follows:

C
sub
D1
13. (New) A device for discriminating a nuclear fuel in an installation comprising a structure subjacent to storage cells immersed in a water filled bay, comprising a first detector of a first type of radiation and a second detector of a second type of radiation, a waterproof casing containing the detectors, means for attaching the casing to a boom, means for positioning the

device on at least one of the cells which is adjacent another cell in which the nuclear fuel is contained, the means for positioning the device being located under the casing, and a shield of the second type of radiation which is contained in the casing, the shield comprising a thinner part in front of the first detector and a thicker part in front of the second detector and above the first detector.

14. (New) A device according to claim 13, wherein the first detector is a neutron detector and the second detector is a gamma ray detector, and the thicker part of the shield comprises a front collimator extending towards the second detector and having a section which is elongated in a transversal direction of a rod containing the nuclear fuel and inserted into the cell, when the device is positioned on said at least one of the cells.

15. (New) A device according to claim 14, wherein the second detector is surrounded by a shield comprising a rear collimator which is a conoidal having a base with a largest axis extending out in the transversal direction of the rod.

16. (New) A device according to claim 15, wherein the shield surrounding the second detector is slidably contained in the casing.

REMARKS

Applicants thank the Examiner for the careful consideration given the application. In this amendment claims 9 and 10 have been amended to correct informalities. New claims 13-16 have been added to cover additional novel features of the invention.